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GROUNDWATER MONITORING PROGRAM SUBCONTRACTOR SPECIAL TASK HEALTH AND SAFETY PLAN Revision Level 1 Job No. GE6000VS

1. Items 1-9 to be completed by RMRS Special Task Project Manager.

Project Name CHARACTERIZATION OF THE 903 DRUM STORAGE AREA (IHSS 112), 903 LIP AREA (IHSS 155), AND AMERICIUM ZONE

Task: This Special Task Health and Safety Plan (HASP) is only for the work to be conducted for the implementation of the Sampling Analysis Plan (SAP) (RF/RMRS-97-084) for the Characterization of the 903 Drum Storage Area (903 Pad) (IHSS 112), 903 Lip Area (Lip Area) (IHSS 155), and the Americium Zone. The sampling program proposed per the SAP is designed to further delineate and characterize the extent of radiological and VOC contamination for remedial activities. The scope of this proposed activity is limited to the collection of surface radiological data using HPGe methodology and surface soil samples for radiological analysis, collection of subsurface soil samples, using the Geoprobe or hollow-stem auger drilling methodology, for VOC and radiological analysis, and groundwater samples for VOC analysis if DNAPLs are suspected. Sample analyses and interpretation will be the responsibility of RMRS. Activities described in this Special Task HASP will be performed by or at the direction of RMRS Environmental Restoration Projects personnel.

Restoration Projects personnel.
Requested by: Mark Wood
Proposed Start-Up Date: <u>January 1998</u> Project/Task No. <u>GE6000VS</u>
Reviewed by RMRS Health and Safety Supervisor
Printed NameM.D. Schreckengast
Signature M.D. Shuckengast Date 8.31-98
Reviewed and Approved by Radiological Engineer
Printed Name #-3-ESTABRUOKS
Signature Statust Date 8/31/98
Approved by RMRS Special Task Project Manager
Printed Name Mark R. Wood
Signature Mark R. Word Date 8/31/98
Title Project Manager
Approved by RMRS Quality Assurance/Quality Control
Printed Name Greg DiGregorio
Signature Man Date 8/3/198
Title _ LMKS Quelity Engineer
Note to Project Managers: A signed and completed copy of the Health and Safety Plan and a signed and completed copy of the safety briefing <u>must</u> be included in the project file.

2. Project Description:

Description of Non-Intrusive Activities: Approximately 1500 HPGe measurements will be collected from the Americium Zone and possibly the Lip Area investigation areas. Each HPGe measurement will be collected from a 12 meter diameter Field of View (FOV). Follow-up FIDLER surveys may be performed to further delineate the areas with radionuclides equal to or above the RFCA Tier I action levels.

Description of Planned Intrusive Activities: Subsurface and surface soil sampling activities will be conducted in several phases. One phase will be the collection of approximately 15 "grab" surface soil samples from six selected HPGe locations for radiological analysis for verification and correlation to the surficial HPGe measurements per the SAP. One phase will consist of 25 soil boring locations on the 903 Pad utilizing Geoprobe drilling methodology to collect subsurface soil samples to a depth of three feet for radiological analysis and possibly volatile organic compound (VOC) analysis. One phase will consist of approximately 25 soil boring locations in the 903 Lip Area utilizing Geoprobe drilling methodology to collect subsurface soil samples to a depth of two feet for radiological analysis and possibly VOC analysis. Another phase, the VOC investigation, will consist of approximately 20 soil boring locations on the 903 Pad and the 903 Lip Area utilizing either Geoprobe or hollow-stem auger drilling methodology to collect subsurface soil samples to depths up to 28 feet for radiological and VOC analysis. Approximately 468 soil cores will be collected per the SAP. Soil core samples will be transported directly to the analytical laboratories after screening for radiological and VOC contamination and minimizing site personnel contact with potentially contaminated soils. Collection of groundwater samples with suspected DNAPLs will be performed per the SAP. Drill cuttings, if generated, will be containerized, temporarily stored in a 90-day RCRA permitted area pending analytical results, and then final disposition per FO.29. Returned environmental samples will be characterized on the basis of analytical results and process knowledge and dispositioned in accordance with FO.09 and FO.29.

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7.	- 1	ocation:

This Task Specific HASP covers planned surface and subsurface soil and groundwater sampling activities to be performed for the site characterization of the 903 Pad (IHSS 112), the Lip Area (IHSS 155), and the Americium Zone, as shown in Figure 1.1. Field activities are scheduled during 1998 and 1999.

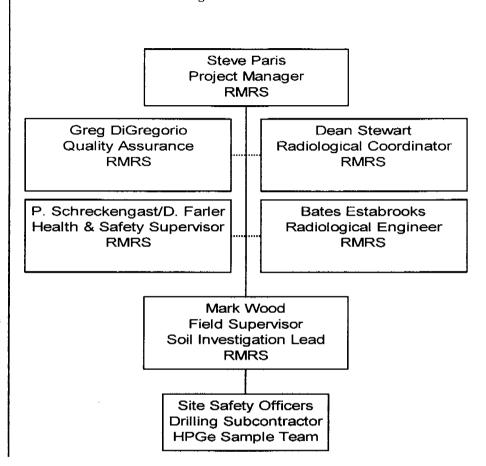
4. Facility/Work site Description

As shown in Figure 1.1, the work area is at the eastern edge of the industrial area and south of the East Access Road. From 1958 to 1967, the 903 Pad was used to for storing drums containing plutonium and uranium contaminated volatile organic compounds (solvents). Leaking drums resulted in contamination of the 903 Pad, the Lip Area, and the Americium Zone. Several remedial actions took place in the late 1960s and 1970s to remove hot spots and to cap the 903 Pad with eight inches of clean fill and three inches of asphalt. The Lip Area was also graded and covered with seven inches of clean fill. The 903 Pad and the Lip Area are flat lying with a gentle slope to the south and east. The Americium Zone is generally flat lying with a gentle slope to the east and a steep slope to the south on the south side (Figure 1.1).

	posed Personnel and Tasks:
Figure	1.2 shows the project organization chart and project responsibilities.
Pr	oject Manager: Steve Paris

86/8/11 CM Z#

Figure 1.2 903 Pad, 903 Lip Area, and Americium Zone Organizational Chart



Proposed Field Team	Job Function/Tasks								
Steve Paris	RMRS Project Manager								
Mark Wood	RMRS Field Supervisor/Team Lead/assist with soil inv. tasks								
Harold Sanchez, Ron Blea	Subcontractor Health and Safety Officer/Health and Safety Specialist								
J. Boylin/T. Lutherer	Subcontractor Geologist/logging and sampling								
Rick Gentry	RMRS HPGe Data Coordinator/assist with HPGe data collection								
B. Simmons/C. Lucero/M. MacKe	nzie/Myaugn/P. Christmas/L. Hardin Project RCTs, Rad control								
G. Stretesky/R. Michaels	Subcontractor Geoprobe operator								
Ralph Rupp	Subcontractor Geologist/logging and sampling								
L. Booth/L. Umbaugh	Canberra Project Manager and Gamma Spectrometry Specialist								
Rebecca Mitchell	Canberra Industrial Hygiene Specialist								
Paul Wojtaszek	Canberra Gamma Spectrometry Specialist								
Todd Shipley	Canberra Gamma Spectrometry Specialist								
Bates Estabrooks	RMRS Radiological Engineering								
hazards such as: toxic contaminan as engulfment, or electrical or mec employee is in the confined space. vessels, bins, boilers, ventilation or	[b]). A permit required confined space also may pose additional is, a flammable or oxygen deficient atmosphere, or other hazards, such manical hazards should equipment be inadvertently activated while an Confined spaces include but are not limited to storage tanks, process exhaust ducts, air pollution control devices, smoke stacks, underground and open top spaces more than four feet in depth such as test pits, waste confined YES - Describe below X_NO								
7. Cutting and Welding Will this task involve use of a cutti or welding?	ng torch $\underline{\underline{X} \text{ NO}}$ YES - Describe below								
3. Other Potential Hazards X Chemical X Radiological Fire/Explosion X Heat/Cold Stress Electrical X Machinery/Mechanical E	X Trips, Slips, Falls Trenching/Shoring Heavy Equipment/Vehicular Traffic Overhead Hazards X Unstable/Uneven Terrain Other - Describe below								

Groundwater Monitoring Program, Special Task Health and Safety Plan for the Site Characterization of the 903 Drum Storage Area (IHSS 112), 903 Lip Area (IHSS 155), and Americium Zone

16. Personal Protective Equipment Job Function/Task Initial level of Protection Location 903 Pad/903 Lip Area Subsurface soil sampling Exclusion Zone Mod. Level D protection unless B C **D** 1 2 3 OTHER B C D 1 2 3 OTHER (Contamination Area the RWP has more stringent B C D 1 2 3 OTHER or High Contamination Area) requirements Contamination Reduction Zone Level D protection unless В \mathbf{C} 2 3 \mathbf{D} 1 OTHER (Radiological Buffer Area) B C D 1 2 3 OTHER the RWP has more stringent B C D 1 2 3 OTHER requirements Job Function/Task Location Initial level of Protection Americium Zone HPGe/FIDLER surveys and surface soil sampling 3 **Exclusion Zone** Level D protection unless D OTHER B C D 1 2 3 OTHER (Contamination Area or the RWP has more stringent B C D 1 2 3 OTHER High Contamination Area) requirements Contamination Reduction Zone <u>Level D protection unless</u> \mathbf{R} C D - 1 3 OTHER (Radiological Buffer Area) the RWP has more stringent B C D 1 2 3 OTHER B C D 1 2 3 OTHER requirements List the specific protective equipment and material (where applicable) for each of the levels of protection identified above. Level B Level C (includes all Mod Level D req.) ____ Half face air purifying respirator Pressure demand airline with escape provisions _Pressure demand SCBA _____ Full face air purifying respirator Full face canister air purifying respirator _ Inner latex gloves Outer NBR gloves Level __D Level Mod D Standard work clothes/DOE coveralls X Standard work clothes/DOE coveralls X Hard hat, steel-toed boots, safety glasses Hard hat, steel-toed boots, safety glasses X Ear protection during drill rig hammering operation X Ear protection during drilling hammering operation \underline{X} Inner nitrile gloves (2 pair) X Outer NBR booties (follow RWP) Outer Nitrile Butyl Rubber (NBR) gloves (follow RWP) Outer Nitrile Butyl Rubber (NBR) booties (follow RWP) Note: Hard hat to be worn when within five feet of Geoprobe operation or 50 feet of hollow-stem auger operation, or if overhead hazards are present. Orange traffic vests required when moving drill rig. Where air purifying respirators authorized, GMC-H are the appropriate canisters/ cartridges for use with the specific substances and concentrations anticipated. Cartridges will be replaced at the start of each work day. NO CHANGES TO THE SPECIFIED LEVELS OF PROTECTION SHALL BE MADE WITHOUT THE KNOWLEDGE AND APPROVAL OF THE HEALTH AND SAFETY OFFICER AND THE PROJECT MANAGER.

17. Decontamination

Personnel and equipment leaving the Exclusion Zonc/Contamination Area or High Contamination Area will proceed through the decontamination procedures in the contamination reduction zone (Radiological Buffer Area) in accordance with Section 6.5.2.1, Radiological Areas - Step-off Pad Requirements and the task specific RWP:

Emergency decontamin	ation procedures:								
18. Confined Entry Pro	ocedures X Not	Applicabl	e						
Yes N/A		Yes	N/A						
Provide Formula Test Atmosp (a) %02 (b) %LEL © Other Descriptions/Other:	ced Ventilation ohere for:		Refer to Personal Protection Equip. (#16) Refer to Emergency Procedures. (#29) Other Special Procedures						
19. Cutting/Welding									
Yes N/A		X	Not Applicable						
Cover wall, Provide fire Other Special Instruction 20. Onsite Organization Project Manager: Field Team Leader	ons: n and Coordination	v.: <u>Mark</u>	Wood						
Field Team Members	Job l	Function/	Health and Safety Tasks						
Steve Paris/Mark Wood	RMRS Project Management responsible for implementation of HASP								
Harold Sanchez	Subcontractor Health and Safety Officer/Health and Safety Specialist responsible for implementation of HASP								
Ron Blea	Subcontractor Health a responsible for implem	h and Safety Officer/Health and Safety Specialist ementation of HASP							
Rebecca Mitchell HASP	Subcontractor Health a	nd Safety	Officer responsible for implementation of						
Bates Estabrooks	RMRS Radiological Engineering responsible for work conducted in accordance with ALARA Job Review, Task-specific RWP, property release evaluations.								
and	Radiological Control M								
Chip Sawyer	Radiological Operation point of contact for RC	al Operations foreman, review surveys, reviews and signs RWPs,							

21. Special Instructions: